

## CLAIMS:

1. Disinfecting agents for combating and inactivating phytopathogenic organisms for use on plants and in their environment, based on a synergistically active mixture that can contain anion-active surfactants, aliphatic carboxylic acids, aromatic carboxylic acids, di- and triglycols, hydrotropic agents and primary and/or secondary, aliphatic, monovalent alcohols with a chain length of C2 – C8 as solvent, characterized in that

a) They contain synergistically active microbicidal combinations of aliphatic and aromatic carboxylic acids, preferably methanoic acid, ethanoic acid, propanoic acid, hydroxyethanoic acid, 2-hydroxypropionic acid, oxoethanoic acid, 2-oxopropionic acid, 4-oxovaleric acid, benzoic acid, o-, m-, p-hydroxybenzoic acids, 3,4,5-tri-hydroxybenzoic acid, individually or mixed, in combination with alkyl sulfonates and/or alkylarylsulfonates and their sodium-, potassium- and ammonium salts, with primary chains with a length of C8 – C18 as anionic surfactants,

b) They contain ethylene glycol, propylene glycol, 2,3-butylene glycol, diethylene glycol (2,2'-dihydroxydiethylether), triethylene glycol (1,2-di-(2-hydroxyethoxyl)-ethane) individually or in a mixture with each other,

c) They contain toluene sulfonates and/or cymene sulfonates as sodium- or potassium salt and monovalent alcohols as solvent, individually or as a mixture.

2. The disinfecting agents according to claim 1, characterized in that the weight ratio of the aliphatic acids (A) to the aromatic acids (B) can be between 1 : 9 and 9 : 1 and their sum can be between 5 and 40 % by wt. relative to the total weight of the disinfecting-agent concentrate.

3. The disinfecting agents according to claims 1 and 2, characterized in that the weight ratio of the alkyl sulfonates and/or alkylarylsulfates and their salts (C) with the acids (A+B) in the ratio  $C : (B+A)$  can be = 1 : 9 and 9 : 1 and their sum can be between 10 and 60 % relative to the total weight of the disinfecting-agent concentrate.

4. The disinfecting agents according to claim 1, characterized in that the weight component of the glycols relative to the total weight of the disinfecting-agent concentrate can be between 10 and 40 % by wt.

5. The disinfecting agents according to claim 1, characterized in that the weight ratio of the hydrotropic agents toluene sulfonate and cumene sulfonate, their sodium- or potassium salts, individually or in a mixture with each other, can be between 5 and 40 % by wt. relative to the total weight of the disinfecting-agent concentrate.

6. The disinfecting agents according to claim 1, characterized in that the weight ratio of the monovalent alcohols, individually or in a mixture with

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8. The use of the disinfecting agents according to one of claims 1 to 6 in dilute aqueous solutions that can contain between 0.5 and 10 % by wt. of the disinfecting-agent concentrate.